

## TS 2068 DISC SYSTEM

Enhance the performance of your TS 2068 with the **AERCO** Disc System. All of the speed and convenience of a full-out floppy disc system. Save, load and copy programs at the industry standard rate of 250,000 bits/sec. Fully compatible with all Shugart type drives, including those already in use with the **AERCO** 1000 Disc System.

The 8K ROM contains the operating system. When the system is booted, the DOS is loaded into the 64K of extra memory in the DOCK bank, thus preserving the entire usable memory in the computer's HOME bank. The ROM can also be custom programmed to accommodate any combination of disc drive parameters. You can mix or match 3.5" with 5.25" single side with double side and 40 track with 80 track. Upgrading drives simply requires the replacement of the ROM for a nominal charge. (We exchange your old one and re-program it). Finally, as the ROM is continually refined, we can quickly and inexpensively update your system.

The 64K of on-board RAM can be used as a second bank of system memory or for a full-blown RP/M System (runs CP/M 2.2). It provides 8 x 8K chunks located in the DOCK bank and accessible via the TIMEX's bank switching capability. If you need more memory, the 64K can be upgraded to 256K. The upgrade requires some rework of the board and can be performed when purchased or at a later time. There are two versions of the 256K. The first limits the system to a maximum of 2-drives by using the address of drives C&D to decode the extra memory as 3 extra pages of 64K each. If more than 2-drives are required, additional modification is required to the board. We can even provide instructions (and parts) if you prefer to upgrade the system yourself.

The RP/M is now available and very slick. We have optimized the size and number of sectors on the disc to provide a buffer that stores the maximum data everytime the disc is accessed resulting in less disc time and a faster system. The display is a full 80 column (the standard for CP/M software) whether the TIMEX display is used or the optional ASCII terminal. The terminal is a must for any serious full time application of the RP/M. These ADDS Viewpoint terminals consist of a 12-inch green screen monitor that displays 24 lines of 80 columns and a 72-key detached PC type keyboard with 10-key numeric pad.

The RGB output is crystal clear and rock steady. The power supply is a 5-amp high efficiency switcher. We offer a variety of other hardware for all models of sinclair-TIMEX.

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## CENTRONICS PRINTER INTERFACE FOR TS 1000 & ZX81      \$99 + \$3 S&H

- \*All cccables included
- \*On board EPROM contains ASCII conversion
- \*Automatically sets RAMTOP, up to 64K
- \*Automatically boots AERCO DISC SYSTEM on power up
- \*Supports LLIST, LPRINT, and COPY commands
- \*4ft ribbon cable to printer

\*\*\*\*\*

## ROM BOARD FOR TS1000 & ZX81      \$59 + \$3 S&H

- \*Automatically sets system RAMTOP, up to 64K
- \*Automatically boots AERCO DISC SYSTEM on reset
- \*Specify printer interface    ☐AERCO    ☐MEMOTECH    ☐2040    ☐NONE

\*\*\*\*\*

## DIRECT VIDEO MODIFICATION FOR TS 1000, 1500 & ZX81      \$15 + \$3 S&H

- \*A small circuit board that installs inside the computer and sends clean, sharp video to a standard computer monitor. It does not disable the normal TV output nor does it invert the video. Requires soldering 3 wires inside the computer.
- \*Complete instructions are included.

\*\*\*\*\*





ACME ELECTRIC ROBOT CO.

Box 18093 Austin, TX 78760

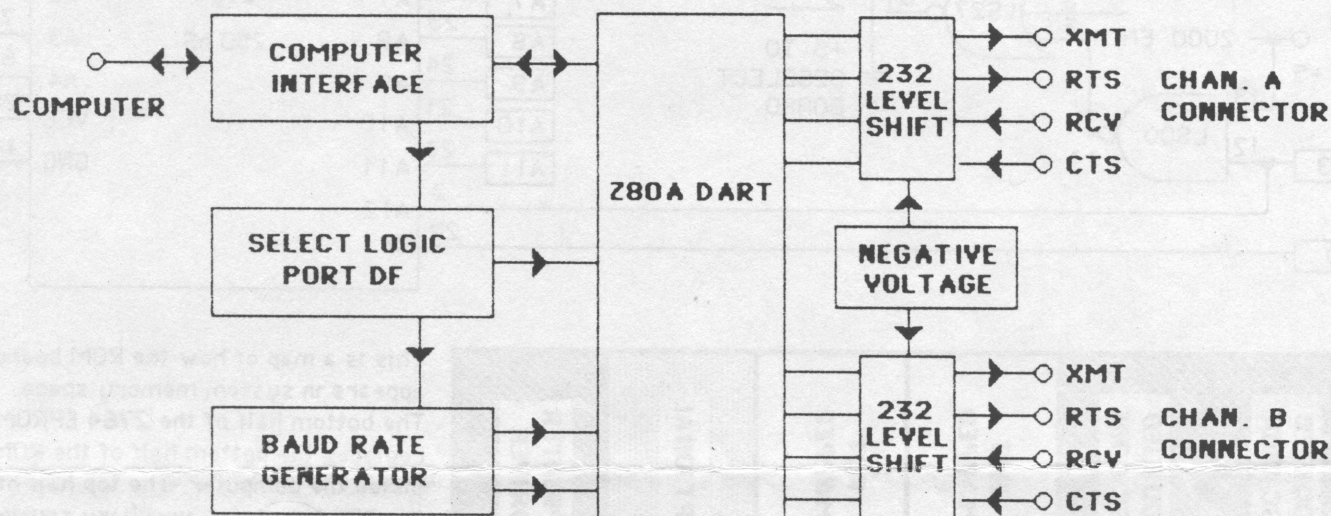
(512) 451-5874

## MODULAR INTERFACE FOR TSC COMPUTERS

### DUAL RS-232 SERIAL INTERFACE

TS1000, TS1500, TS2068

The RS-232 interface is used to communicate with peripheral devices such as Printers and Modems as well as other computers. This is a dual channel board so it can communicate with 2 separate RS-232 devices at 2 independent baud rates. It has on-board crystal controlled baud rate generators with software selectable rates of 50 to 19,200 Baud. It can be used with tape or disc based software or it can have mounted directly to it an EPROM board to provide control firmware directly from Power-On. It plugs directly on to the back of the computer and has a feed-through connector.



- ☐ INTERFACE WITH CABLE FOR 1 DEVICE \$89
- ☐ INTERFACE WITH CABLE FOR 2 DEVICES \$99
- ☐ BUILT IN EPROM BOARD WITH FIRMWARE ADD \$49
- ☐ ZX81/TS1000      ☐ TS1500      ☐ TS2068

*Please add \$3  
for shipping.*

*C.O.D. add \$3*

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

*VISA / MC add 5%*



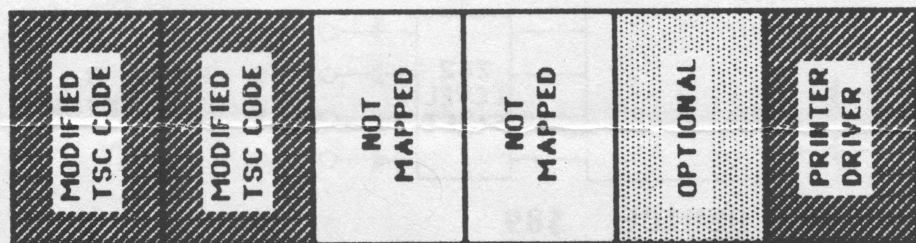
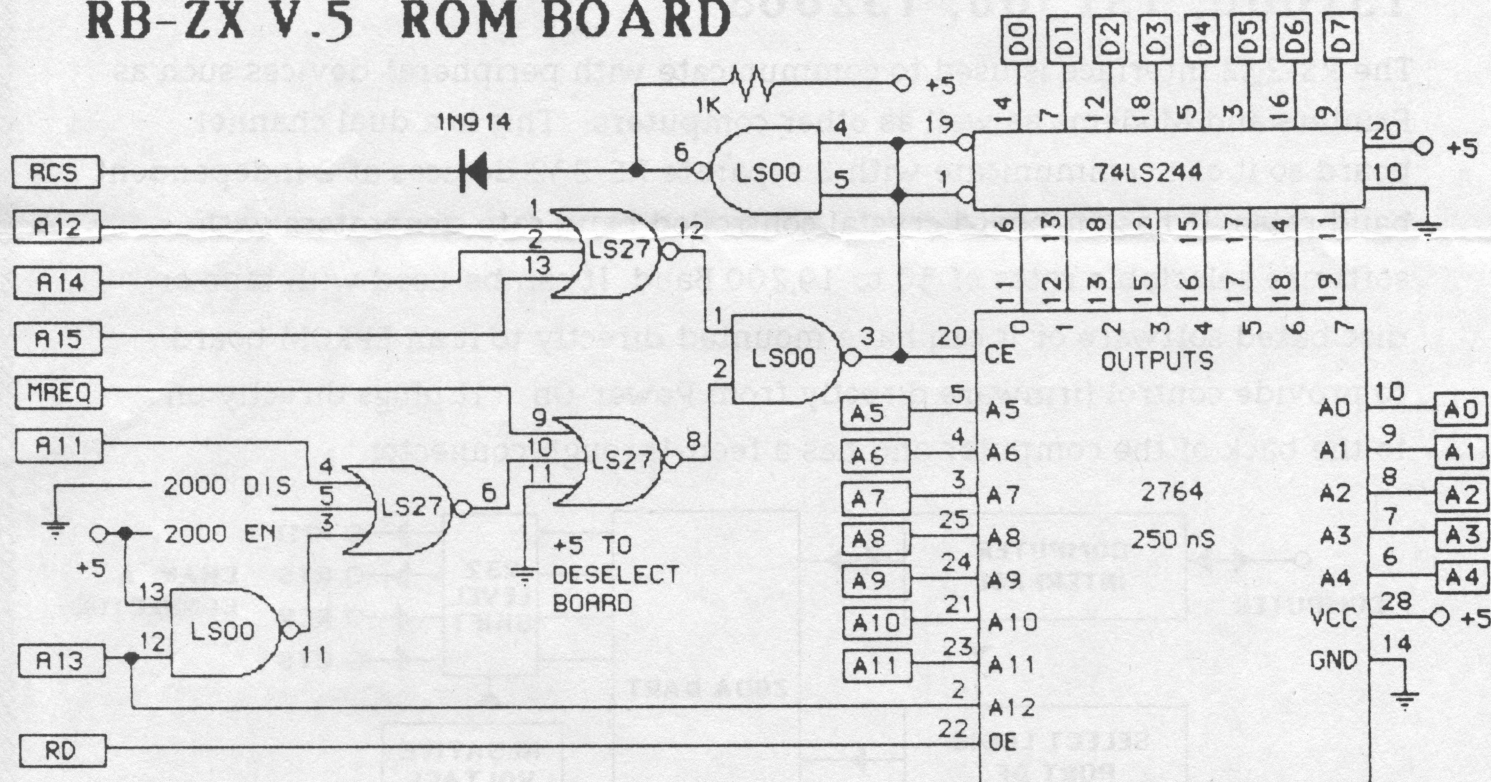
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# MODULAR INTERFACE FOR TSC COMPUTERS

## RB-ZX V.5 ROM BOARD

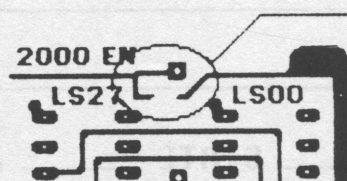
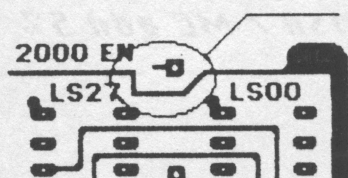


0000	0800	1000	1800	2000	2800	3000	HEX ADDRESS
0	2048	4096	6144	8192	10240	12288	DEC ADDRESS

This is a map of how the ROM board appears in system memory space. The bottom half of the 2764 EPROM replaces the bottom half of the ROM inside the computer. The top half of the 2764 contains auxiliary routines as shown. See below for selecting the optional region at 2000 HEX (8192 DEC).

2000-27FF HEX  
8192-10239 DEC  
NOT ENABLED  
(AS SUPPLIED)

2000-27FF HEX  
8192-10239 DEC  
ENABLED  
(1 CUT, 1 JUMPER)



Make this change to the ROM board to select the optional memory space.

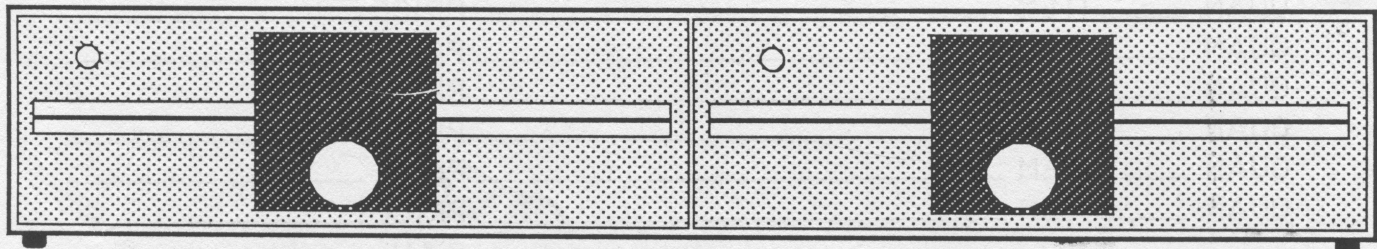
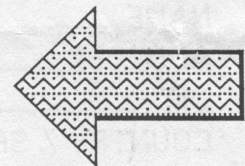


	TS2068	ZX-80 / ZX-81 TS1000 / TS1500
TYPE OF DISC DRIVE	SHUGART COMPATIBLE SS/DS/40T/80T 3 inch <> 8 inch	SHUGART COMPATIBLE SS/DS/40T/80T 3 inch <> 8 inch
ROM	8K	2K
AUTO BOOT	STANDARD	OPTIONAL
RP/M	OPTIONAL SUPPORTS FULL 80 COLUMN	NOT AVAILABLE
SPECIAL FEATURES	64K - 256K RAM RGB OUTPUT	16K - 64K MODES RELOCATABLE DOS
WARRANTY	1 FULL YEAR	1 FULL YEAR

If you use your own drives, please specify:


Size \_\_\_\_\_ Sides (1 or 2) \_\_\_\_\_ Tracks (per side) \_\_\_\_\_

Track to Track Access Time (6 - 30 Ms) \_\_\_\_\_



TS/2068TS/1000-1500

Floppy Disc Interface .....	\$199	.....	\$179
256K 2-Drive Mod .....	50	.....	n/a
256K 4-Drive Mod .....	80	.....	n/a
Disc Drives .....	from 79	.....	from 79
Power Supply with Drive Cabinet .....	99	.....	99
Centronics Printer I/O .....	69	.....	99
Dual RS-232C Serial I/O .....	99	.....	99
ADDS Viewpoint Terminal (limited quantity) .....	129	.....	n/a
ROM Bd. with Auto Disc Boot .....	n/a	.....	59
RGB Cable (specify monitor) .....	30	.....	n/a
RP/M (runs CP/M 2.2) .....	25	.....	n/a
Source Code for Disc Operating System .....	20	.....	20
Disc Instruction Manual (applies to purchase) .....	10	.....	10
Stepper Motor Control > 2-axis, 1 amp .....	99	.....	99
Stepper Motor Control > 4-axis, 1 amp .....	179	.....	179
Stepper Motor Control > 2-axis, 7 amp .....	299	.....	299
Stepper Motor Control > 4-axis, 7 amp .....	549	.....	549
Stepper Motor, 30 oz./in. ....	10	.....	10

MODE	CHARGE per ITEM
UPS Ground	3
UPS 2nd Day Air	5
UPS Next Day Air	12
Foreign Air	10
 HEAVY ITEMS AS STEPPER CONTROL OR ASCII TERMINAL ARE EXTRA	

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Personal checks require 3 weeks to clear

C.O.D. orders over \$100 require Cash, Certified  
Check or Money Order.

Texas residents add 6.125%

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

COUNTRY / SPECIAL INSTR. \_\_\_\_\_

☐ VISA ☐ M/C \_\_\_\_\_ EXP \_\_\_\_\_

PHONE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

QUAN. \_\_\_\_\_ ITEM \_\_\_\_\_ PRICE \_\_\_\_\_

S & H \_\_\_\_\_

TOTAL \_\_\_\_\_